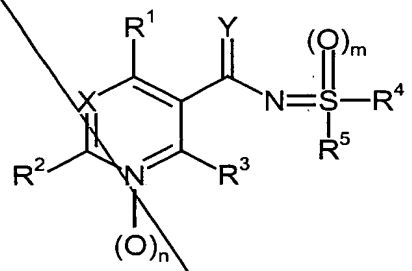
What is claimed is:

1. An acylsulfimide of the formula (I) and salts thereof,



(I)

where the symbols and indices are as defined below:

X	is CH or N;
Y	is O or S;
n	is 0 or 1;
m	is 0 or 1;
R^1	is C_1-C_6-haloalkyl;
R^2, R^3	are identical or different and are H, halogen or a branched or unbranched (C_1-C_6)-alkyl group, where one or two CH_2 groups may be replaced by -O- or -S- or -N(C_1-C_6)-alkyl, with the proviso that heteroatoms may not be adjacent to one another;
R^4, R^5	are identical or different and are R^6, -C(LW)R^7, -C(=NOR^7)R^7, -C(=NNR^7_2)R^7, -C(=W)OR^7, -C(=W)NR^7_2, -OC(=W)R^7, -OC(=W)OR^7, -NR^7C(=W)R^7, -N[C(=W)R^7]$_2$, -NR^7C(=W)OR^7, -C(=W)NR^7-NR^7_2, -C(=W)NR^7-NR^7[C(=W)R^7], -NR^7-C(=W)NR^7_2, -NR^7-NR^7C(=W)R^7, -NR^7-N[C(=W)R^7]$_2$, -N[(C=W)R^7]-NR^7_2, -NR^7-NR^7[(C=W)WR^7], -NR^7[(C=W)NR^7_2], -NR^7(C=NR^7)R^7, -NR^7(C=NR^7)NR^7_2, -O-NR^7_2, -O-NR^7(C=W)R^7, -SO_2NR^7_2, -NR^7S$O_2$$R^7$, -S$O_2OR^7$, -OS$O_2$$R^7$, -O$R^7$, -N$R^7_2$, -S$R^7$, -Si$R^7_3$, -P$R^7_2$, -P(=W)$R^7$, -SO$R^7$, -S$O_2$$R^7$, -P$W_2$$R^7_2$, -P$W_3$$R^7_2$;

or

R^4 and R^5 together with the sulfur to which they are attached form a three- to eight-membered saturated or unsaturated ring system which is optionally mono- or polysubstituted, and which optionally contains 1 to 4 further heteroatoms, where two or more of the substituents optionally form one or more further ring systems;

B1 cont

W is O or S;

R^6 are identical or different and are $(C_1$-$C_{20})$-alkyl, $(C_2$-$C_{20})$-alkenyl, $(C_2$-$C_{20})$-alkynyl, $(C_3$-$C_8)$-cycloalkyl, $(C_4$-$C_8)$-cycloalkenyl, $(C_8$-$C_{10})$-cycloalkynyl, aryl or heterocyclyl, where the radicals mentioned may optionally be mono- or polysubstituted, and

R^7 is identical or different and is H or R^6.

2. An acylsulfimide as claimed in claim 1, where

X is CH.

3. An acylsulfimide as claimed in claim 1, where

Y is O.

4. An acylsulfimide as claimed in claim 1, where

n is 0.

5. An acylsulfimide as claimed in claim 1, where

R^1 is $(C_1$-$C_6)$-alkyl which is mono- or polysubstituted by F and/or Cl.

6. An acylsulfimide as claimed in claim 1, where the radicals R^4, R^5 are substituted by one or more radicals R^8 and where R^8 has the following meaning:

R^8 are identical or different and are R^9, or two radicals R^8 together with the atoms to which they are attached form a three- to eight-membered saturated or unsaturated ring system, optionally substituted by one or more radicals R^9, which optionally also contains further heteroatoms;

R^9 are identical or different and are R^{10}, R^{11}, $-C(W)R^{10}$, $-C(=NOR^{10})R^{10}$, $-C(=NNR^{10}{}_2)R^{10}$, $-C(=W)OR^{10}$, $-C(=W)NR^{10}{}_2$, $-OC(=W)R^{10}$, $-OC(=W)OR^{10}$, $-NR^{10}C(=W)R^{10}$, $-N[C(=W)R^{10}]_2$, $-NR^{10}C(=W)OR^{10}$,

B' Cont

$-C(=W)NR^{10}-NR^{10}{}_2$, $-C(=W)NR^{10}-NR^{10}[C(=W)R^{10}]$, $-NR^{10}-C(=W)NR^{10}{}_2$, $-NR^{10}-NR^{10}C(=W)R^{10}$, $-NR^{10}-N[C(=W)R^{10}]_2$, $-N[(C=W)R^{10}]-NR^{10}{}_2$, $-NR^{10}-N[(C=W)WR^{10}]$, $-NR^{10}[(C=W)NR^{10}{}_2]$, $-NR^{10}(C=NR^{10})R^{10}$, $-NR^{10}(C=NR^{10})NR^{10}{}_2$, $-O-NR^{10}{}_2$, $-O-NR^{10}(C=W)R^{10}$, $-SO_2NR^{10}{}_2$, $-NR^{10}SO_2R^{10}$, $-SO_2OR^{10}$, $-OSO_2R^{10}$, $-OR^{10}$, $-NR^{10}{}_2$, $-SR^{10}$, $-SiR^{10}{}_3$, $-PR^{10}{}_2$, $-P(=W)R^{10}{}_2$, $-SOR^{10}$, $-SO_2R^{10}$, $-PW_2R^{10}{}_2$, $-PW_3R^{10}{}_2$; or two radicals R^9 together form (=W), ($=NR^{10}$), ($=CR_2{}^{10}$), ($=CHR^{10}$) or ($=CH_2$);

R^{10} are identical or different and are (C_1-C_6)-alkyl, (C_2-C_6)-alkenyl, (C_2-C_6)-alkynyl, (C_3-C_8)-cycloalkyl, (C_4-C_8)-cycloalkenyl, (C_3-C_8)-cycloalkyl-(C_1-C_4)-alkyl, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkyl, (C_3-C_8)-cycloalkyl-(C_2-C_4)-alkenyl, (C_4-C_8)-cycloalkenyl-(C_2-C_4)-alkenyl, (C_1-C_6)-alkyl-(C_3-C_8)-cycloalkyl, (C_2-C_6)-alkenyl-(C_3-C_8)-cycloalkyl, (C_2-C_6)-alkynyl-(C_3-C_8)-cycloalkyl, (C_1-C_6)-alkyl-(C_4-C_8)-cycloalkenyl, (C_2-C_6)-alkenyl-(C_4-C_8)-cycloalkenyl, aryl, heterocyclyl;
where the radicals mentioned are optionally substituted by one or more radicals R^{11}; and

R^{11} are identical or different and are halogen, cyano, nitro, hydroxyl, thio, amino, formyl, (C_1-C_6)-alkanoyl, (C_1-C_6)-alkoxy, (C_3-C_6)-alkenyloxy, (C_3-C_6)-alkynyloxy, (C_1-C_6)-haloalkyloxy, (C_3-C_6)-haloalkenyloxy, (C_3-C_6)-haloalkynyloxy, (C_3-C_8)-cycloalkoxy, (C_4-C_8)-cycloalkenyloxy, (C_3-C_8)-halocycloalkoxy, (C_4-C_8)-halocycloalkenyloxy, (C_3-C_8)-cycloalkyl-(C_1-C_4)-alkoxy, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkoxy, (C_3-C_8)-cycloalkyl-(C_2-C_4)-alkenyloxy, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkenyloxy, (C_1-C_6)-alkyl-(C_3-C_8)-cycloalkoxy, (C_2-C_6)-alkenyl-(C_3-C_8)-cycloalkoxy, (C_2-C_6)-alkynyl-(C_3-C_8)-cycloalkoxy, (C_1-C_6)-alkyl-(C_4-C_8)-cycloalkenyloxy, (C_2-C_6)-alkenyl-(C_4-C_8)-cycloalkenyloxy, (C_1-C_4)-alkoxy-(C_1-C_6)-alkoxy, (C_1-C_4)-alkoxy-(C_3-C_6)-alkenyloxy, carbamoyl, (C_1-C_6)-mono- or dialkylcarbamoyl, (C_1-C_6)-mono- or dihaloalkylcarbamoyl, (C_3-C_8)-mono- or dicycloalkylcarbamoyl, (C_1-C_6)-alkoxycarbonyl, (C_3-C_8)-cycloalkoxycarbonyl, (C_1-C_6)-alkanoyloxy, (C_3-C_8)-cycloalkanoyloxy, (C_1-C_6)-haloalkoxycarbonyl, (C_1-C_6)-haloalkanoyloxy, (C_1-C_6)-alkanamido, (C_1-C_6)-haloalkanamido, (C_2-C_6)-alkenamido, (C_3-C_8)-cycloalkanamido, (C_3-C_8)-cycloalkyl-(C_1-C_4)-alkanamido, (C_1-C_6)-alkylthio, (C_3-C_6)-alkenylthio, (C_3-C_6)-alkynylthio, (C_1-C_6)-haloalkylthio, (C_3-C_6)-haloalkenylthio, (C_3-C_6)-haloalkynylthio, (C_3-C_8)-cycloalkylthio, (C_4-C_8)-cycloalkenylthio, (C_3-C_8)-halocycloalkylthio, (C_4-C_8)-

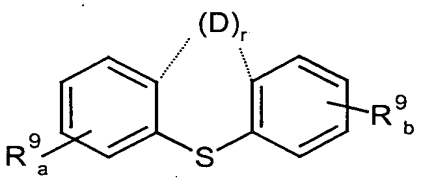
B1 cont

halocycloalkenylthio, (C_3-C_8)-cycloalkyl-(C_1-C_4)-alkylthio, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkylthio, (C_3-C_8)-cycloalkyl-(C_3-C_4)-alkenylthio, (C_4-C_8)-cycloalkenyl-(C_3-C_4)-alkenylthio, (C_1-C_6)-alkyl-(C_3-C_8)-cycloalkylthio, (C_2-C_6)-alkenyl-(C_3-C_8)-cycloalkylthio, (C_2-C_6)-alkynyl-(C_3-C_8)-cycloalkylthio, (C_1-C_6)-alkyl-(C_4-C_8)-cycloalkenylthio, (C_2-C_6)-alkenyl-(C_4-C_8)-cycloalkenylthio, (C_1-C_6)-alkylsulfinyl, (C_3-C_6)-alkenylsulfinyl, (C_3-C_6)-alkynylsulfinyl, (C_1-C_6)-haloalkylsulfinyl, (C_3-C_6)-haloalkenylsulfinyl, (C_3-C_6)-haloalkynylsulfinyl, (C_3-C_8)-cycloalkylsulfinyl, (C_4-C_8)-cycloalkenylsulfinyl, (C_3-C_8)-halocycloalkylsulfinyl, (C_4-C_8)-halocycloalkenylsulfinyl, (C_3-C_8)-cycloalkyl-(C_1-C_4)-alkylsulfinyl, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkylsulfinyl, (C_3-C_8)-cycloalkyl-(C_3-C_4)-alkenylsulfinyl, (C_4-C_8)-cycloalkenyl-(C_3-C_4)-alkenylsulfinyl, (C_1-C_6)-alkyl-(C_3-C_8)-cycloalkylsulfinyl, (C_2-C_6)-alkenyl-(C_3-C_8)-cycloalkylsulfinyl, (C_2-C_6)-alkynyl-(C_3-C_8)-cycloalkylsulfinyl, (C_1-C_6)-alkyl-(C_4-C_8)-cycloalkenylsulfinyl, (C_2-C_6)-alkenyl-(C_4-C_8)-cycloalkenylsulfinyl, (C_1-C_6)-alkylsulfonyl, (C_3-C_6)-alkenylsulfonyl, (C_3-C_6)-alkynylsulfonyl, (C_1-C_6)-haloalkylsulfonyl, (C_3-C_6)-haloalkenylsulfonyl, (C_3-C_6)-haloalkynylsulfonyl, (C_3-C_8)-cycloalkylsulfonyl, (C_4-C_8)-cycloalkenylsulfonyl, (C_3-C_8)-halocycloalkylsulfonyl, (C_4-C_8)-halocycloalkenylsulfonyl, (C_3-C_8)-cycloalkyl-(C_1-C_4)-alkylsulfonyl, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkylsulfonyl, (C_3-C_8)-cycloalkyl-(C_3-C_4)-alkenylsulfonyl, (C_4-C_8)-cycloalkenyl-(C_3-C_4)-alkenylsulfonyl, (C_1-C_6)-alkyl-(C_3-C_8)-cycloalkylsulfonyl, (C_2-C_6)-alkenyl-(C_3-C_8)-cycloalkylsulfonyl, (C_2-C_6)-alkynyl-(C_3-C_8)-cycloalkylsulfonyl, (C_1-C_6)-alkyl-(C_4-C_8)-cycloalkenylsulfonyl, (C_2-C_6)-alkenyl-(C_4-C_8)-cycloalkenylsulfonyl, (C_1-C_6)-dialkylamino, (C_1-C_6)-alkylamino, (C_3-C_6)-alkenylamino, (C_3-C_6)-alkynylamino, (C_1-C_6)-haloalkylamino, (C_3-C_6)-haloalkenylamino, (C_3-C_6)-haloalkynylamino, (C_3-C_8)-cycloalkylamino, (C_4-C_8)-cycloalkenylamino, (C_3-C_8)-halocycloalkylamino, (C_4-C_8)-halocycloalkenylamino, (C_3-C_8)-cycloalkyl-(C_1-C_4)-alkylamino, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkylamino, (C_3-C_8)-cycloalkyl-(C_3-C_4)-alkenylamino, (C_4-C_8)-cycloalkenyl-(C_3-C_4)-alkenylamino, (C_1-C_6)-alkyl-(C_3-C_8)-cycloalkylamino, (C_2-C_6)-alkenyl-(C_3-C_8)-cycloalkylamino, (C_2-C_6)-alkynyl-(C_3-C_8)-cycloalkylamino, (C_1-C_6)-alkyl-(C_4-C_8)-cycloalkenylamino, (C_2-C_6)-alkenyl-(C_4-C_8)-cycloalkenylamino, (C_1-C_6)-trialkylsilyl, aryl, aryloxy, arylthio, arylamino, aryl-(C_1-C_4)-alkoxy, aryl-(C_3-C_4)-alkenyloxy, aryl-(C_1-C_4)-alkylthio, aryl-(C_2-C_4)-alkenylthio, aryl-(C_1-C_4)-alkylamino, aryl-(C_3-C_4)-alkenylamino, aryl-(C_1-C_6)-dialkylsilyl, diaryl-(C_1-C_6)-alkylsilyl, triarylsilyl and 5- or 6-membered heterocyclyl, the cyclic moiety of the fourteen last-mentioned radicals

being optionally substituted by one or more radicals selected from the group consisting of halogen, cyano, nitro, amino, hydroxyl, thio, $(C_1$-$C_4)$-alkyl, $(C_1$-$C_4)$-haloalkyl, $(C_3$-$C_8)$-cycloalkyl, $(C_1$-$C_4)$-alkoxy, $(C_1$-$C_4)$-haloalkoxy, $(C_1$-$C_4)$-alkylthio, $(C_1$-$C_4)$-haloalkylthio, $(C_1$-$C_4)$-alkylamino, $(C_1$-$C_4)$-haloalkylamino, formyl and $(C_1$-$C_4)$-alkanoyl.

7. An acylsulfimide as claimed in claim 1, where the unit SR^4R^5 is represented through the following structures from the group A to E:

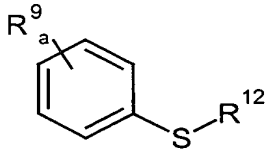
A.



wherein the symbols and indices have the following meanings:

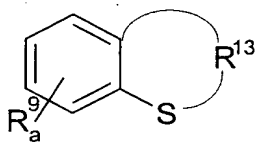
r	is 0, 1;
D	is a direct bond, $(C_1$-$C_4)$-alkylene, branched or unbranched, O, $S(O)_{0,1,2}$, or NR^{11};
R^9	is a substituent as defined in claim 6;
R^{11}	is H, $(C_1$-$C_4)$-alkyl, branched or unbranched, $(C_1$-$C_4)$-alkanoyl, $(C_1$-$C_4)$-alkoxycarbonyl, $(C_1$-$C_4)$-alkyl- or -dialkylaminocarbonyl or $(C_1$-$C_4)$-alkylsulfonyl;

B.



wherein the symbols and indices have the following meanings:

R^{12}	is $(C_1$-$C_8)$-alkyl, optionally substituted by an optionally substituted phenyl radical or $(C_3$-$C_6)$-cycloalkyl radical, $(C_3$-$C_6)$-cycloalkyl, optionally substituted by or condensed with an optionally substituted phenyl radical;
R^9	is a substituent as defined in claim 6;
a	is 0, 1, 2, 3, 4, or 5, preferably 0, 1 or 2;

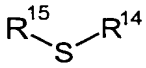
C. 

wherein the symbols and indices have the following meanings:

R^9 is a substituent as defined in claim 6;

a is 0, 1, 2, 3 or 4, preferably 0, 1 or 2;

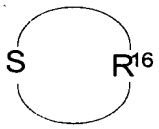
R^{13} is a straight chain or branched $(C_2$-$C_8)$-alkanediyl group, optionally substituted by one or two or condensed with an optionally substituted phenyl radical;

D. 

wherein the symbols and indices have the following meanings:

R^{14}, R^{15} are identical or different and are in each case $(C_1$-$C_8)$-alkyl, optionally substituted by or condensed with an optionally substituted phenyl radical or $(C_3$-$C_8)$-cycloalkyl radical, $(C_3$-$C_6)$-cycloalkyl, optionally substituted by or condensed with an optionally substituted phenyl radical;

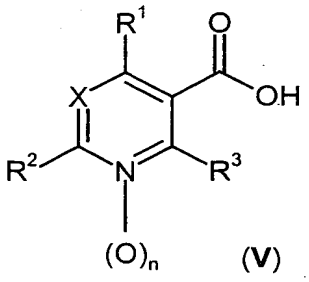
and

E. 

wherein the symbol has the following meaning:

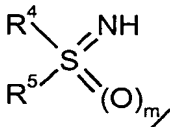
R^{16} is a straight chain or branched $(C_2$-$C_8)$-alkanediyl group, optionally substituted by one or two or condensed with an optionally substituted phenyl radical.

8. A process for preparing a compound of formula (I) as claimed in claim 1, wherein Y is oxygen, where a carboxylic acid of the formula (V),



(V)

in which R^1, R^2, R^3, X and n are as defined under formula (I) in the form of an activated derivative of this acid is reacted in the presence of a base with a compound of the formula (VI), in which R^4, R^5 and m are as defined under formula (I)



(VI).

9. A composition having insecticidal, acaricidal and/or nematicidal action, which comprises at least one compound of the formula (I) as claimed in claim 1.

10. A composition having insecticidal, acaricidal and/or nematicidal action as claimed in claim 9 in a mixture with carriers and/or surfactants.

11. The composition as claimed in claim 9, which comprises a further active compound selected from the group consisting of acaricides, fungicides, herbicides, insecticides, nematicides or growth-regulating substances.

12. A veterinary medicament comprising a compound as claimed in claim 1.

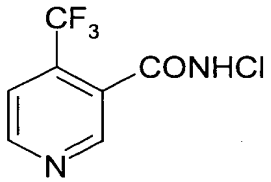
13. A method for controlling harmful insects, acarids and nematodes, which comprises applying an effective amount of a compound as claimed in claim 1 to the site where the action is desired.

14. A method for controlling harmful insects, acarids and nematodes, which comprises applying an effective amount of a composition as claimed in claim 9 to the site where the action is desired.

15. A method for protecting useful plants against the undesirable action of harmful insects, acarids and nematodes, which comprises using at least one of the compounds as claimed in claim 1 for treating the seed of the useful plants.

16. A method for protecting useful plants against the undesirable action of harmful insects, acarids and nematodes, which comprises using at least one of the composition as claimed in claim 9 for treating the seed of the useful plants.

17. A process for preparing N-chloro-4-trifluoromethylnicotinamide and salts thereof of the formula (IIIa)



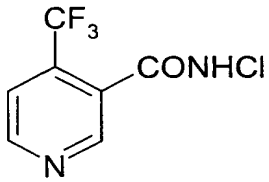
HA

(IIIa)

in which A is a non-oxidizable, organic or inorganic anion

by chlorination of 4-trifluoromethylnicotinamide with Cl_2 in aqueous acid and, if appropriate, subsequent anion exchange and/or, if appropriate, reaction with a base, to give N-chloro-4-trifluoromethylnicotinamide.

18. A salt of N-chloro-4-trifluoromethylnicotinamide of the formula (IIIa)



HA

(IIIa)

in which A is a non-oxidizable, organic or inorganic anion

19. A salt as claimed in claim 18, wherin A is F, HF_2, Cl, BF_4, PF_6, HSO_4, ½ SO_4, CH_3COO, CF_3COO, CF_3SO_3, CH_3SO_3, p-CH_3-$C_6H_5SO_3$ or H_2PO_4.